

Human-oriented and Usable Security – Karima Boudaoud



Speaker: Karima Boudaoud is Assistant Professor at the University of Nice Sophia Antipolis. She had obtained her PhD. degree in Computer Sciences from Ecole Polytechnique Fédérale de Lausanne (EPFL) and had received her M.Sc in Computer Sciences from the University of Versailles Saint Quentin-en Yvelines (UVSQ). She has participated in several research projects in the area of Networks and Services Security funded by the European Commission (IST-FP6 research programme), CNRS-INRIA-DGA and Fond National Suisse. She has served in several TPC and OC of several national and international (IEEE/IFIP or others) conferences and workshops (IM, WWW, ICC, NOMS, etc.). Her main research interest is Security management but a security management oriented towards the User and her previous research field was intrusion detection using multi-agent system

With the growth of Internet, one of the most sensitive issues of our “always connected” society is the security of electronic data. The issue concerns everyone: individuals, corporations and public institutions. At the Network and Information Security Management: research ideas workshop ¹ held on 22nd September 2011, one of the main recommendations was there is a need to examine human oriented security solutions as the generation of users is changing as they are born and raised with ICT and studies show they would be more open to use security solutions and the security designers need to listen and adapt their solutions according. At the workshop, there were discussions about the level of evidence about young people caring more about security and privacy. There is mainly anecdotal evidence on this that while some users will ignore these issues, there are considerable levels of users that care about their security and privacy. It was agreed that researchers should not take as a starting point that young people don't care about security and privacy. Instead, all of the points of view should be studied from the sociological perspectives and involve the right stakeholders in our research projects.

Security management should be more accessible to all kind of users and especially non-security experts evolving towards a more human oriented security management vision. To address today's security issues, we need to: 1) move from the traditional technology-only oriented design of security solutions towards user-centric security management and 2) bring together experts from psychology, social science, economics, legal, technologists and security experts to address security and privacy from a user point of view and put her/him at the heart of problem.

From an international point of view, we need:

- Collaboration between security experts and experts from other disciplines (psychology, social science, etc.) and from different countries, in addition to collaboration with international government institutions.
- Organisation of **multidisciplinary** and **international workshops** targeting wide public.
- Set up of **multidisciplinary** and **international working groups** in targeted countries.
- Collaboration with standardization organisations.

¹ http://cordis.europa.eu/fp7/ict/security/events_en.html